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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO | |
|---|----------------------|----------------------|-------------------------|-----------------|--|
| 09/936,294 | 03/11/2002 | Yuji Kakehi | 2576-118 | 2437 | |
| 6449 75 | 6449 7590 12/13/2005 | | | EXAMINER | |
| ROTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W. SUITE 800 WASHINGTON, DC 20005 | | | GHULAMALI, QUTBUDDIN | | |
| | | | ART UNIT | PAPER NUMBER | |
| | | | 2637 | | |
| | | | DATE MAILED: 12/13/2005 | 5 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | (X | | |
|---|---|--|--|
| | Application No. | Applicant(s) | |
| | 09/936,294 | KAKEHI, YUJI | |
| Office Action Summary | Examiner | Art Unit | |
| | Qutub Ghulamali | 2637 | |
| The MAILING DATE of this communication app Period for Reply | sears on the cover sheet w | ith the correspondence address | |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MON e, cause the application to become Al | CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). | |
| Status | | | |
| 1) Responsive to communication(s) filed on 09/2 | 7/2005. | | |
| 2a)⊠ This action is FINAL . 2b)☐ This | | | |
| 3) Since this application is in condition for allowa closed in accordance with the practice under be | | | |
| Disposition of Claims | | | |
| 4) Claim(s) 1-8 and 10-18 is/are pending in the a | | | |
| 4a) Of the above claim(s) is/are withdra 5) \(\bigcirc Claim(s) \frac{17 and 18}{2} \) is/are allowed. | wn from consideration. | | |
| 6) Claim(s) <u>17 and 18</u> israte allowed. | | | |
| 7) Claim(s) <u>3-7, 14, 16</u> is/are objected to. | | | |
| 8) Claim(s) are subject to restriction and/o | or election requirement. | | |
| Application Papers | | | |
| 9) The specification is objected to by the Examine | er. | | |
| 10) The drawing(s) filed on is/are: a) acc | | | |
| Applicant may not request that any objection to the | | | |
| Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E | | | |
| Priority under 35 U.S.C. § 119 | | | |
| 12) Acknowledgment is made of a claim for foreign | n priority under 35 U.S.C. | § 119(a)-(d) or (f). | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | , p | 3 | |
| 1. Certified copies of the priority document | ts have been received. | | |
| 2. Certified copies of the priority documen | ts have been received in / | Application No | |
| 3. Copies of the certified copies of the price | ority documents have beer | n received in this National Stage | |
| application from the International Burea | | | |
| * See the attached detailed Office action for a list | of the certified copies no | t received. | |
| Attachment(s) | | | |
| .1) Notice of References Cited (PTO-892) | | Summary (PTO-413) | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 | 🗂 | (s)/Mail Date Informal Patent Application (PTO-152) | |
| Paper No(s)/Mail Date 1/15/03. | 6) Other: | | |

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DETAILED ACTION

1. This Office Action is responsive applicant's Remarks/Amendments filed on 09/27/2005.

Claim Objections

2. Claim 3 is objected to because of the following informalities: Claim 3, lines 5 and 9 recite "fame", should it be changed to "frame"? Appropriate correction is required.

Response to Arguments

3. Applicant's remarks/amendments filed 09/27/2005 regarding claims 1, 8, 10 and 17, have been fully considered but they are not persuasive. Applicant alleges that Shou-Lomp combination and in particular Lomp, under 35U.S.C 103(a), fails to disclose a cell search process and stopping signal processing of the cell search if either of frame timing, code group or code is invalid. The examiner respectfully disagrees and would respectfully like to draw applicant's attention to Lomp, col. 30, lines 60-67, that very clearly emphasize that the receiver upon receiving the signal (acquisition phase and the timing phase) during the cell search process compares the output signal of the pilot despreader to a threshold and once the match is found (determines the validity as commonly understood in the art of communication) the search process stops for the event wherein the code sequences are timed in response to the Sync. signal determined by the controller's (1303) control signal. Based on disclosure by Lomp, the

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limitations of instant claims are satisfied rendering this argument moot. Therefore, rejection of claims 1-2, 8, 10-13 and 15 is still maintained.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 2, 8, 10-13 and 15, are rejected under 35 U.S.C. 103(a) as being unpatentable over Shou et al (USP 5,910,948) in view of Lomp et al (USP 5,991,332).

Regarding claims 1, 2, 8, 10, 11, 13 and 15, Shou discloses a mobile communication terminal comprising:

- a receiver (12) receiving a radio wave (11) from base stations (abstract; fig. 1; col. 3, lines 15-20, 45-48);
- a detector detecting spread codes from signals received by said receiver (col. 3, lines 45-63; col. 5, lines 60-67);
- a demodulator (30) demodulating the received signals with the spread codes detected by said detector (22, correlators 1-n) (col. 6, lines 18-37);
- a control unit dividing a slot into a plurality of search ranges, deleting multipath in said search range, successively allowing demodulator (30) to demodulate the received signals and allowing decoder to decode the demodulated data (abstract; col. 4, lines 20-27). Shou however is silent regarding:

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a decoder decoding data demodulated by said demodulator, and a control unit controlling cell search process, and stopping signal processing of the cell search in response to detection of invalid cell code.

Lomp in a similar field of endeavor discloses,

a decoder (fig. 15, elements 1713-1716) decoding data demodulated by said demodulator (col.

31, lines 1-15): and

a control unit (fig. 11, element 1303) controlling cell search process, and stopping signal processing of the cell search in response to detection of invalid cell code (match and dismiss) (col. 30, lines 57-67; col. 31, lines 1-4). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a decoder and a control unit as taught by Lomp in the circuit of Shou because it can allow decoding of encoded data in each of the received message channel and facilitate controlling the search process so that signal power level of despread associated code signal is optimized.

Regarding claim 12, Shou discloses a cellular communication system includes: a slot timing detector (short period (time)) detecting slot timing from the signals received by said receiver (col. 3, lines 41-48);

a code group detector detecting a code group (long code or group) based on the slot timing detected by said slot timing detector from the signals received by said receiver (col. 3, lines 41-56); and

a code detector detecting a code based on the slot timing detected by said slot timing detector and the code group detected by said code group detector from the signals received by said receiver (col. 3, lines 41-63; col. 4, lines 20-28).

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Allowable Subject Matter

6. Claims 17-18 allowed.

7. Claims 3-7, 14 and 16, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form *including the claim objection*, all of the limitations of the base claim and any intervening claims.

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qutub Ghulamali whose telephone number is (571) 272-3014. The examiner can normally be reached on Monday-Friday from 8:00AM - 5:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

QG December 2, 2005. JEAN B. CORRIELUS PRIMARY EXAMINER 12-4-05

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